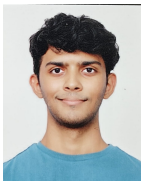

TANMAY CHETAN PATEL

Course : **B.E. (Hons.)**, Computer Science, 2024
Email : F20201368@GOA.BITS-PILANI.AC.IN
Mobile : 9662488628
CGPA : 6.47

Education

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	Utkarsh Higher Secondary School	Gujarat Secondary Education Board (GSEB)	522 MARKS	2020
CLASS X		Anand Niketan Shilaj	ICSE	90.33 %	2018

Subjects / Electives	Database Systems, Data Structures and Algorithms, Fundamentals of Data Science, Cryptography, Discrete Mathematics for CS, Number Theory, Design and Analysis of Algorithms, Machine Learning, Logic in Computer Science, Object Oriented Programming, Probability and Statistics
Technical Proficiency	C++ Language, Python3, SQL, HTML + CSS, JavaScript, PostgreSQL, Assembly Language, Automation Tools, Express.js, React.js, Node.js

SUMMER INTERNSHIP / WORK EXPERIENCE

DSP Engineer, VINJEY Software Systems Pvt. Ltd. **Jul 2023 - Dec 2023**

- **Implemented Hand Assembly** of Radix-2 DIT FFT and **beat O3** compiler in **RISC-V Assembly (by 5% to 6%) for various N points** ranging from N = 128 to N = 1024
- **Setup** BeagleV-Ahead and perf on it. Got various metrics for FFT on this RISC-V Board
- Worked on **Audio Signal Engineering,** completed over 10 **Audio Coding** exercises. **Tech Stack : RISC-V Assembly , C , Linux**

RPA Developer, Silver Touch Technologies LTD **May 2022 - Jul 2022**

- Built, deploy, and manage 7 **automation bots** to emulate human actions interacting with digital systems and software.
- Developed and optimized databases and tables on PostgreSQL platform, employing advanced SQL commands and conditional expressions to streamline data retrieval processes, leading to a 25% increase in database query speed and efficiency.
- Tech Stack: **Automation anywhere**, SQL Platform

PROJECTS

FFT implementation in RISC-V Assembly - Software Development **Jul 2023 - Nov 2023**

- **Implemented** Radix-2 DIT FFT in **RISC-V Assembly** Language from scratch.
- Implemented the **'perf'** tool to collect performance metrics such as execution time, cycle count, and instruction count on the board, utilized insights to optimize code and achieved up to **6% reduction in instruction count,** enhancing system performance.

Blog Web Application - Web Development **Dec 2022 - Jan 2023**

- Developed a web application using Node.js, Express.js, and EJS. The application allows users to create and view blog posts.
- The site has 5 different pages to display , create , edit/delete posts , FAQs and contact information.
- Leveraged 2 cutting-edge technologies to ensure a sleek UI, showcasing proficiency in Bootstrap and jQuery.

Sales Insights - Brick and mortar business [Power BI | SQL] - Business Intelligence **Jul 2022 - Jul 2022**

- Designed a Power BI dashboard to understand 11 AtliQ hardware goods sales trend, allowing users to take informed decisions.
- This dashboard could help in increasing the revenue by at least 7% in the next quarter.

COMPETITIONS

Standard Chartered Bank Agile-A-Thon **Feb, 2023**

- **Winner (1st place)** of Agile-A-Thon, a **case study competition** for students to dive into **agile methodologies.**
- Participants tackle **real-world challenges**, applying agile principles to propose **creative solutions** (1st place).

POSITION OF RESPONSIBILITY

Deputy Home Minister - Parliament of Anand Niketan Shilaj School **Apr 2017 - Feb 2018**

- Organizing Blood Donation Camps for faculty and parents (approximately 400 guests) and facilitating chief guests at events.

EXTRA CURRICULAR ACTIVITIES

Football - Represented State Gujarat at National Level in Reliance Youth Sports
Chess - 97th percentile on chess.com(100million users)